

Law of Conservation of Mass Multiple Choice Question

Choose the correct answer out of the four options provided in each question:

1. Who was the first person to determine the law of conservation of mass?

- i) Blaise Pascal
- ii) Antoine Lavoisier
- iii) Robert Hooke
- iv) Robert Boyle

Ans. _____

2. 25 g of reactant XY breaks down into 10 g of A and _____ amount of product B.

Complete this statement with the correct option.

- i) 5g
- ii) 12g
- iii) 20g
- iv) 15g

Ans. _____

3. Which of these statements is the best definition of the law of conservation of mass?

- i) In a closed system, mass is neither created nor destroyed.
- ii) In an open system, mass is converted into energy.
- iii) In a closed system, mass is converted into energy.
- iv) In an open system, mass is destroyed by external energy.

Ans. _____

4. 50g of A reacts with 340g of B to give C. How much does C weigh?

- i) 340g
- ii) 350g
- iii) 370g
- iv) 390g

Ans. _____

5. $2\text{MgO} \rightarrow \text{O}_2 + 2\text{Mg}$
 16g 48g

What is the molar mass of MgO?

- i) 78g
- ii) 40g
- iii) 64g
- iv) 56g

Ans. _____

6. A new candle was lit, and after letting it burn for an hour, it was observed to be smaller than it was in the beginning. What does this indicate?

- i) The candle wax fell off.
- ii) The candle wax burned away as carbon dioxide and water vapor.
- iii) The candle wax burned away as oxygen and water vapor.
- iv) The candle wax burned away as nitrogen and carbon dioxide.

Ans. _____

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Answers

1. Who was the first person to determine the law of conservation of mass?

- i) Blaise Pascal
- ii) Antoine Lavoisier
- iii) Robert Hooke
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Ans. ii)

2. 25 g of reactant XY breaks down into 10 g of A and _____ amount of product B. Complete this statement with the correct option.

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Ans. iv)

3. Which of these statements is the best definition of the law of conservation of mass?

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Ans. i)

4. 50g of A reacts with 340g of B to give C. How much does C weigh?

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Ans. iv)

5. $2\text{MgO} \rightarrow \text{O}_2 + 2\text{Mg}$
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Ans. ii)

6. A new candle was lit, and after letting it burn for an hour, it was observed to be smaller than it was in the beginning. What does this indicate?

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Ans. ii)